ABSTRACT

A heat transport device having a composite structure that is readily manufactured and a method for manufacturing such a heat transport device are provided. The heat transport device includes a first base plate having a liquid suction and retention unit for sucking and retaining a liquid-phase working fluid by capillary force; a second base plate having a face provided with a first concavity functioning as a vaporization chamber for vaporizing the working fluid, a second concavity functioning as a liquefaction chamber for liquefying the working fluid, a first ditch for transporting the vaporized working fluid, a second ditch for transporting the liquefied working fluid, the second base plate comprising a material having a thermal conductivity lower than that of silicon; and a thermoplastic or thermosetting resin material for bonding the first and second base plates. The heat transport device can be readily manufactured by heating the first and second base plates sandwiching a thermoplastic or thermosetting resin material therebetween.